

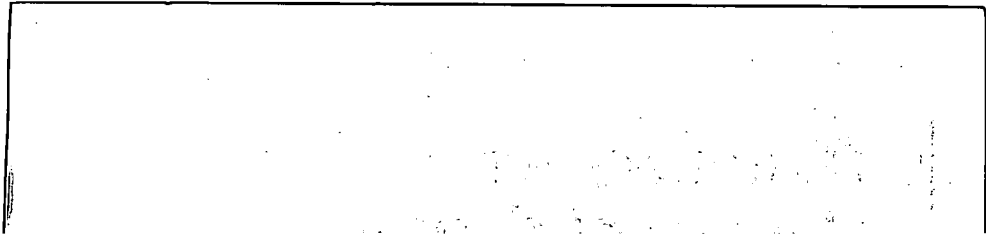
LAMAR Bulletin
1979-81
UNIVERSITY
College of Graduate Studies

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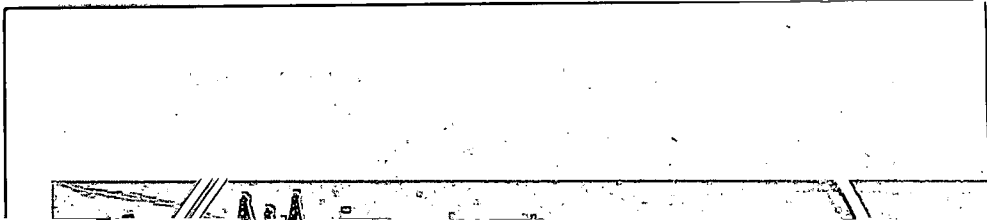


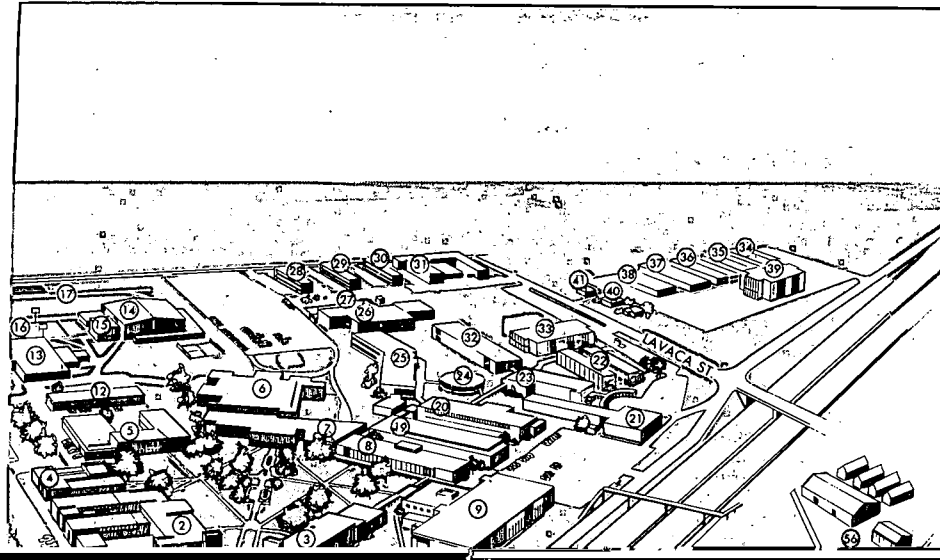
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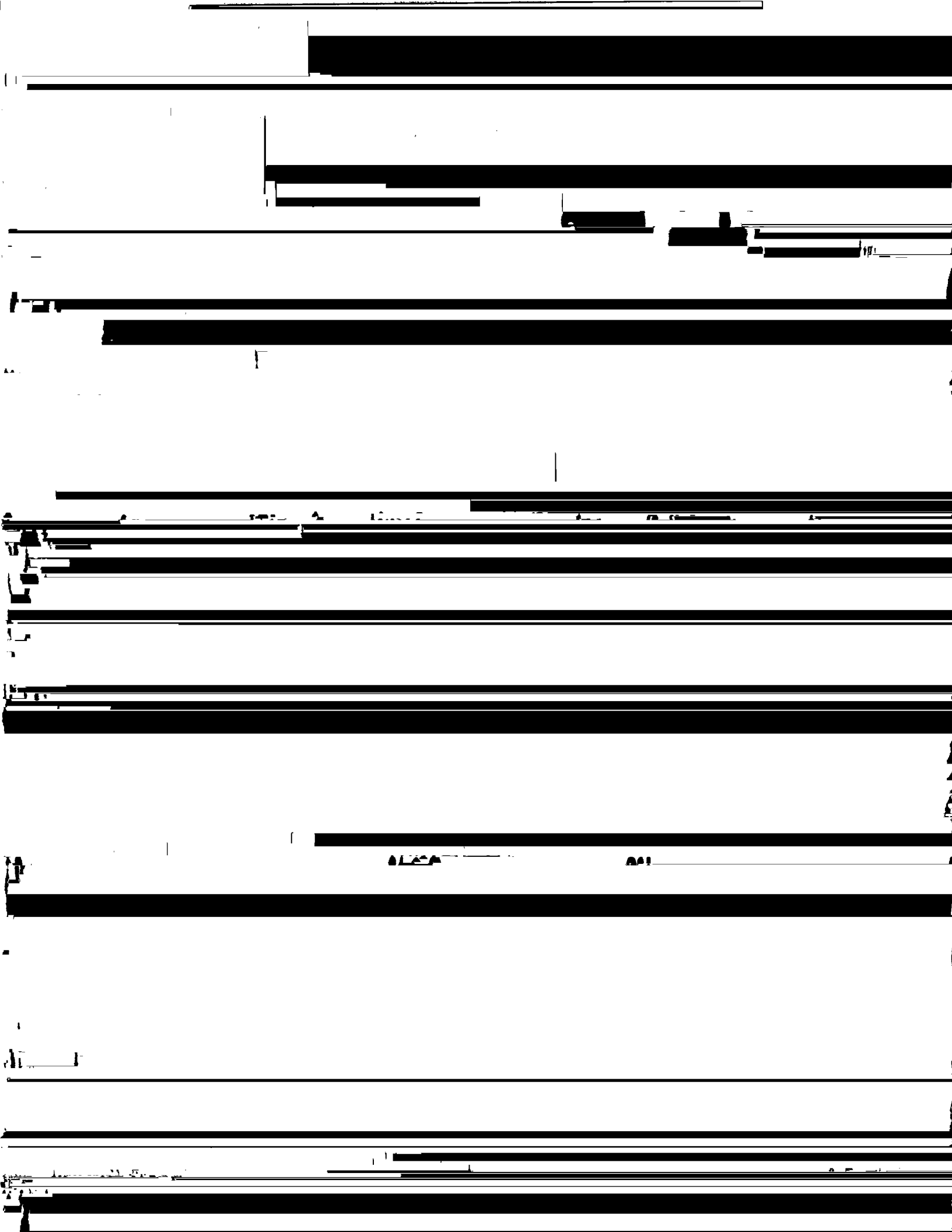
Directory for Correspondence

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Summer Session — 1980 Fall Semester — 1980

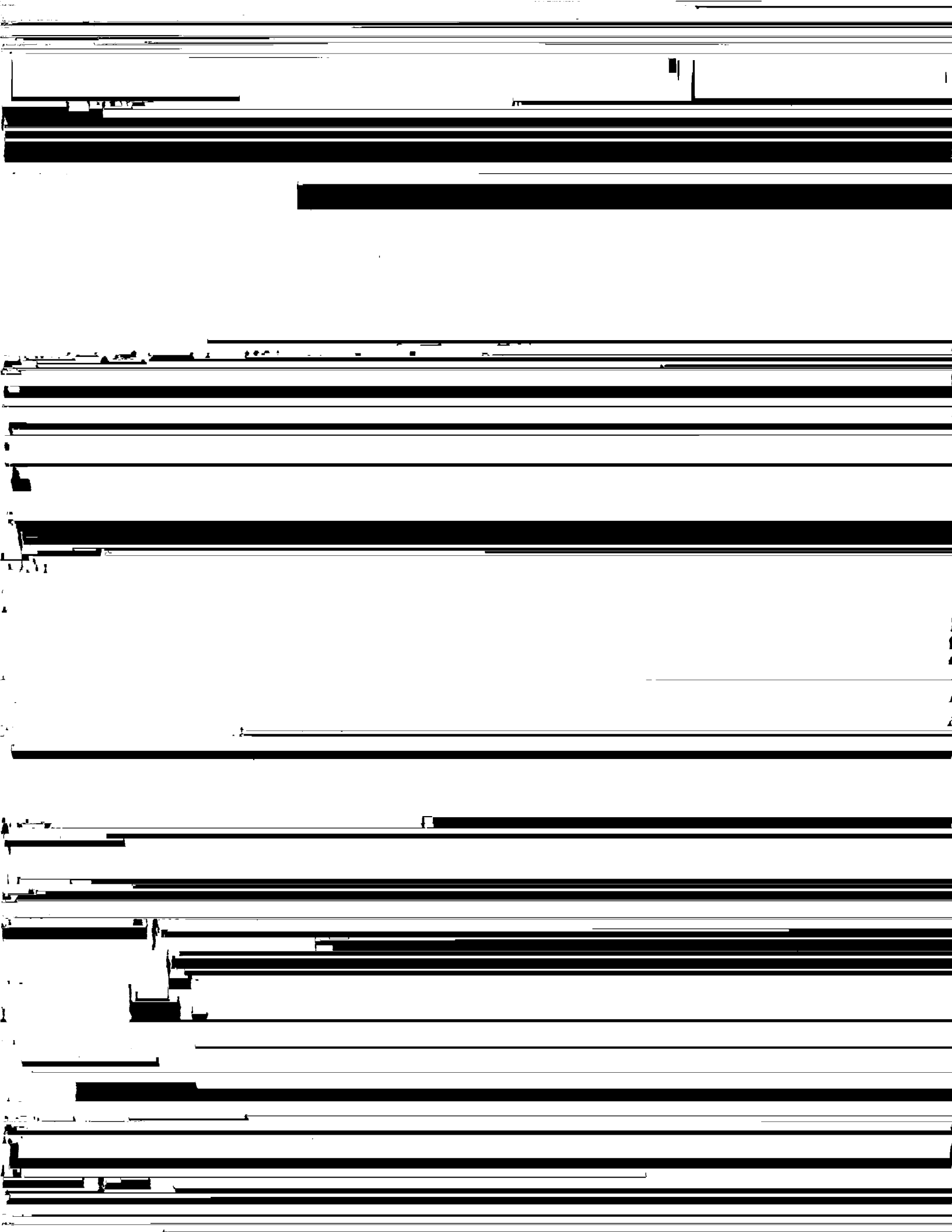
First Term

JUNE

- 1 Dormitories open at 1 p.m.
- 2 Dining halls open at 4:30 p.m.
- 3 Classes begin — schedule re-

AUGUST 1980

- 24 Dormitories open at 1 p.m.
- 25 Dining halls open at 4:30 p.m.
- Registration begins
- 26 Registration
- 27 Registration
- 28 Classes begin



The Graduate Council

RALPH A. WOOSTER, B.A., M.A., Ph.D., Dean of the College of
Graduate Studies and Dean of Faculties, Chairman

JOSEPH CARLUCCI, B.M., M.M., D.M.A., Professor of Music

VERNON H. GREEN, B.S., M.Ed., Ph.D., Professor of Education

LUTHER A. BEALE, Professor of Civil Engineering — Head, Department of Civil Engineering

B.S., M.S., Georgia Institute of Technology; Ph.D., The University of Texas; Registered Professional Engineer

WENDELL C. BEAN; Professor of Electrical and Nuclear Engineering

B.A., B.S., Lamar University; M.S., Ph.D., University of Pittsburgh; Registered Professional Engineer

ALICE C. BELL; Associate Professor of Health and Physical Education

DAVID W. E. CABELL, Assistant Professor of Business Administration

B.S. University of Michigan, M.B.A. University of Detroit, D.B.A. Kent

GEORGE W. de SCHWEINITZ, Professor of English
B.A., University of Colorado; M.A., Ph.D., State University of Iowa

ANN M. DIE, Assistant Professor of Psychology
B.S., Lamar University; M.Ed., University of Houston; Ph.D., Texas A&M
University

KENNETH LEE DORRIS, Associate Professor of Chemistry
B.S., Ph.D., The University of Texas

BRUCE R. DRURY, Associate Professor of Government

W. RICHARD HARGROVE, Professor of Elementary Education —
Dean of Division of Public Service
B.S. M.Ed. North Texas State University; Ed.D. George Peabody Col-

PAUL EDWARD ISAAC, Professor of History

B.A., Pepperdine College; M.A., Ph.D., The University of Texas

S. WALKER JAMES, Professor of Speech

B.A., M.A., Baylor University; M.F.A., Case Western Reserve University;
Ph.D., University of Denver

KENNETH L. JENSEN, Assistant Professor of Business Administration

RICHARD L. LONG, Assistant Professor of Chemical Engineering
B.A., Ph.D., Rice University

RUSSELL J. LONG, Professor of Biology

MARVIN L. McLAUGHLIN, Professor of Elementary Education —
Dean, College of Education
B.S., Sam Houston State University; M.Ed., The University of Texas;
Ed.D., University of Houston

ELIZABETH L. MEEKS, Professor of English
B.A., Union University; M.A., George Peck College for Teachers

LARRY T. PATTERSON, Associate Professor of Business Administration

B.B.A., M.B.A., D.B.A., Texas Tech University

WILLIAM M. PEARSON, Associate Professor of Government
B.S., Sam Houston State University; M.A., Texas A&M University; Ph.D., Louisiana State University

OLEN T. PEDERSON, Associate Professor of Communication
B.S., University of Houston; M.S., East Texas State University; Ph.D., University of Oklahoma

HUGH O. PEEBLES, JR., Associate Professor of Physics
B.S., The University of Texas; M.S., Ph.D., Oklahoma State University

DESMOND N. PENNY, Assistant Professor in the Department of Civil Engineering

B.S., M.S., University College, Cork, Ireland; Ph.D., University of Utah

FREDERICK H. PITTS, Assistant Professor of Chemical Engineering

B.S., Mississippi State University; M.S., Ph.D., Louisiana State University

JOHN A. RYAN, Professor of Business Administration, University of Michigan

MANFRED STEVENS, Professor of Government — Head, Department of Government

B.A., M.A., The University of Oklahoma; Ph.D., The University of Michigan

JOHN W. STOREY, Associate Professor of History

B.A., Lamar University; M.A., Baylor University; Ph.D., University of Kentucky

ARNEY L. STRICKLAND, Professor of English — Head, Department of English

B.A., M.A., Lamar University; Ed.D., Ball State University

WALTER ALLAN SUTTON, Professor of History

B.A., William Marsh Rice University; M.A., Ph.D., The University of Texas

FRANK W. WATSON, Professor of Secondary Education

MALCOLM W. VEULEMAN, Professor of Accounting
B.S., McNeese State University; M.B.A., Ph.D., University of Arkansas;
Certified Public Accountant

HENRY T. WADDELL, Professor of Biology

W. W. WOODMAN, A. B., Ph.D., Professor of Business Administration

General Information

Location

Students who are ill should report promptly to the Center for medical care.

Veterans Education

Lamar is approved for educational training under all of the Veterans Educational Assistance programs.
Veterans and their dependents who are interested in attending Lamar under federal

Laboratory Fees

A laboratory fee of \$2 is charged each semester for courses with a combined lecture and laboratory credit of from one to three semester hours. The laboratory fee is \$4 per semester for courses of four or more semester hours credit.

Private Lessons in Voice and Instrumental Music

One half-hour lesson per week	\$18
Two half-hour lessons per week	36

Late Registration Fee

A charge of \$5 is made during the first day of late registration. This fee increases by \$2.50 per day to a maximum of \$15 (\$7.50, \$10, \$12.50, \$15).

Parking Fee

Each student who pays the necessary fee is issued a car decal which permits parking on the campus. This decal is numbered and is to be displayed as instructed in official parking and traffic regulations, which are issued when automobiles are registered. Strict observance of traffic and parking regulations is necessary for the safe, orderly flow of vehicles in the campus area.

Charges for parking on campus are made at registration. Automobile registration fees are as follows: Fall Semester, \$15; Spring Semester, \$10; Summer Session I, \$6; Summer Session II, \$4. Only one registration is required during an academic year, and a student's parking fee is honored until the end of Summer Session II.

Health and Accident Insurance

Health and accident insurance coverage is available at registration for students carrying nine or more semester hours. The fee is estimated at \$36. This or similar insurance is required of all international students.

Publication of Thesis/Dissertation Abstracts

The Graduate Council requires that thesis and dissertation abstracts be published by University Microfilms. Fees for this service are changed from year to year by University Microfilms. In 1978, these fees were \$20 for a master's thesis and \$35 for a doctoral dissertation. If copyrighting is desired, an additional fee is charged.

Miscellaneous Fees

Binding Thesis (one copy required)	\$ 6.00
Master's Diploma	7.50
Cap, Gown and Hood Rental (Master's)	12.00
Cap, Gown and Hood Rental (Doctor's)	14.50
Returned Checks	5.00
Re-entry Fee	5.00
Transcript Fee50

Refund of Fees

Any student officially withdrawing will receive a refund on tuition, Setzer Center,

student service, laboratory, building and general fund and other fees.

Applicants and various color schemes

week (second week of a summer term) or if the student is passing at the time of withdrawal after the sixth week, a grade of "W" is issued for each course affected. A grade of "F" is issued for all courses not being passed at the time of withdrawal after the penalty-free period.

A student may not withdraw within seven calendar days of the beginning of final examinations or three calendar days before the end of a summer term. A student who leaves without withdrawing officially will receive a grade of "F" in all courses and forfeit all returnable fees.

Enforced Withdrawal Due to Illness

The director of the Health Center and the vice president for student affairs, on the advice of competent medical personnel, may require withdrawal of a student who is

32 ACADEMIC AFFAIRS

A student has the right to challenge records and information directly related to him or her if it is considered to be inaccurate, misleading or otherwise inappropriate. Issues may be resolved either through an informal hearing with the official immediately responsible or by requesting a formal hearing. The procedure to be followed in a formal hearing is available in the Office of Admissions and Records.

The right of parental access to student records may be established by either of two methods: first, by a written consent statement and second, by the

Change of Address or Name

Students are responsible for all communications addressed to them at the address on file in the Office of Student Development, in the Office of the College of Graduate

THE UNIVERSITY OF TEXAS AT AUSTIN

THE COLLEGE OF GRADUATE STUDIES

The College of Graduate Studies

History

The College of Graduate Studies was instituted in the Fall 1960 with the offering

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[REDACTED]

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[REDACTED]

[REDACTED]

[REDACTED]

- (4) A minimum overall grade point average of 2.5 on a four point scale and a score at or above the 25th percentile on the appropriate Advanced Test of the GRE (appropriate test will be determined by the department in which the graduate program is offered) or, in the case of students applying to the College of Education, a score at or above the 25th percentile on the appropriate Area Exam of the National Teachers Examination. This does not exempt such students from submitting GRE aptitude scores prior to admission.
- (5) A minimum overall grade point average of 3.0 on all work and the recommendation of the department in which the graduate program is offered. This does not exempt such students from submitting GRE aptitude scores prior to admission.
- (6) The Graduate Council has approved higher standards for admission to some programs. These are stated in the particular departmental section of this Bulletin.

Students wishing to pursue the Master of Business Administration degree

9. Admission requirements stated above are minimum requirements and the applicant must also have the approval of the department in which the degree program is offered.

Post Baccalaureate Admission

1. Students who wish to take graduate courses but do not wish to be admitted to the College of Graduate Studies (or who have not met all requirements for admission to the College of Graduate Studies) may be admitted as Post Baccalaureate students in one of the undergraduate colleges under the following conditions:
 - A. The applicant must hold the bachelor's degree.
 - B. The applicant must submit an application for admission to the College of Graduate Studies.

ate work per semester will be considered half-time graduate students; students
with 6.0 units of graduate work will be considered three-quarter time gradu-

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Master of Music Education

1. Meet all general degree requirements.
2. Complete 36 hours of graduate work which may include six in thesis.

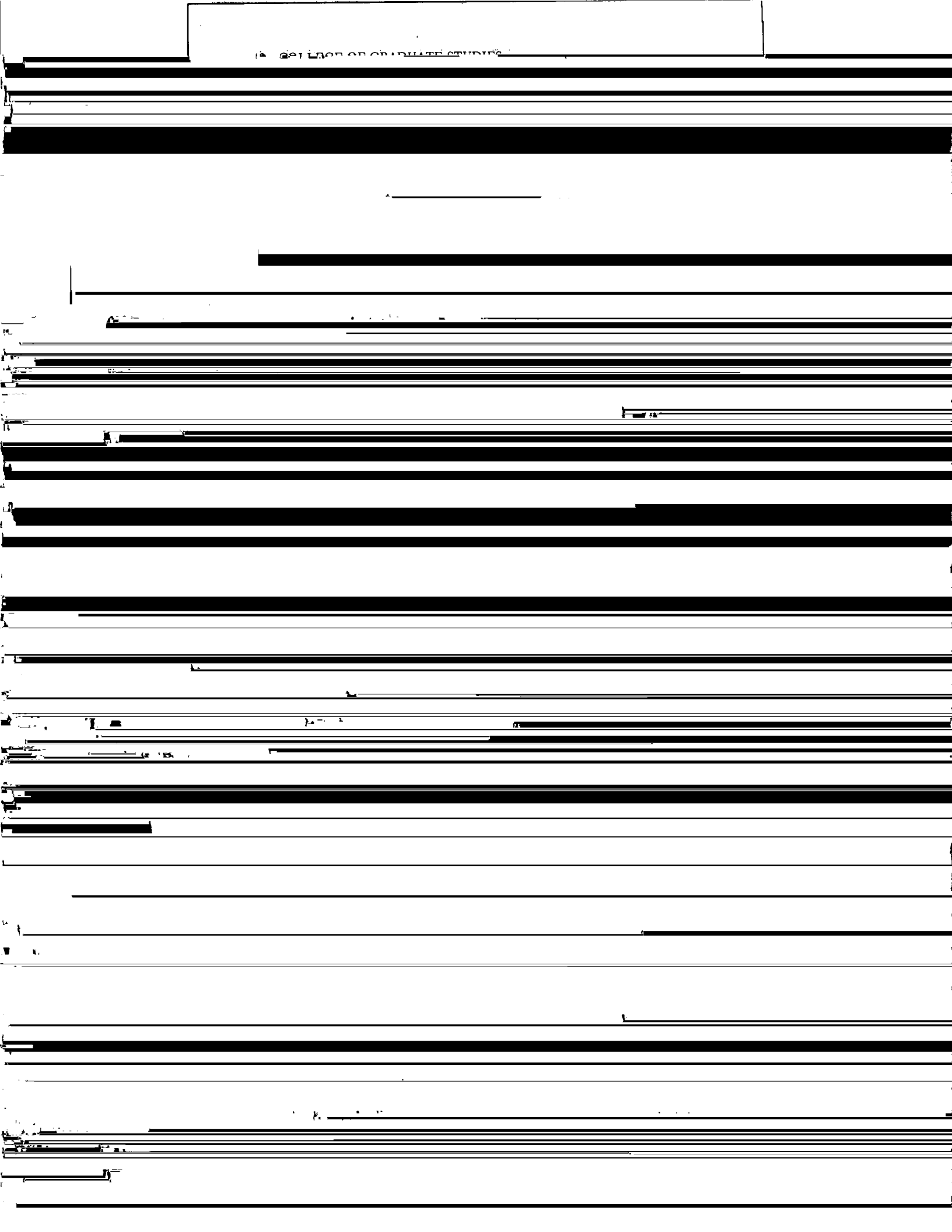
Master of Public Administration

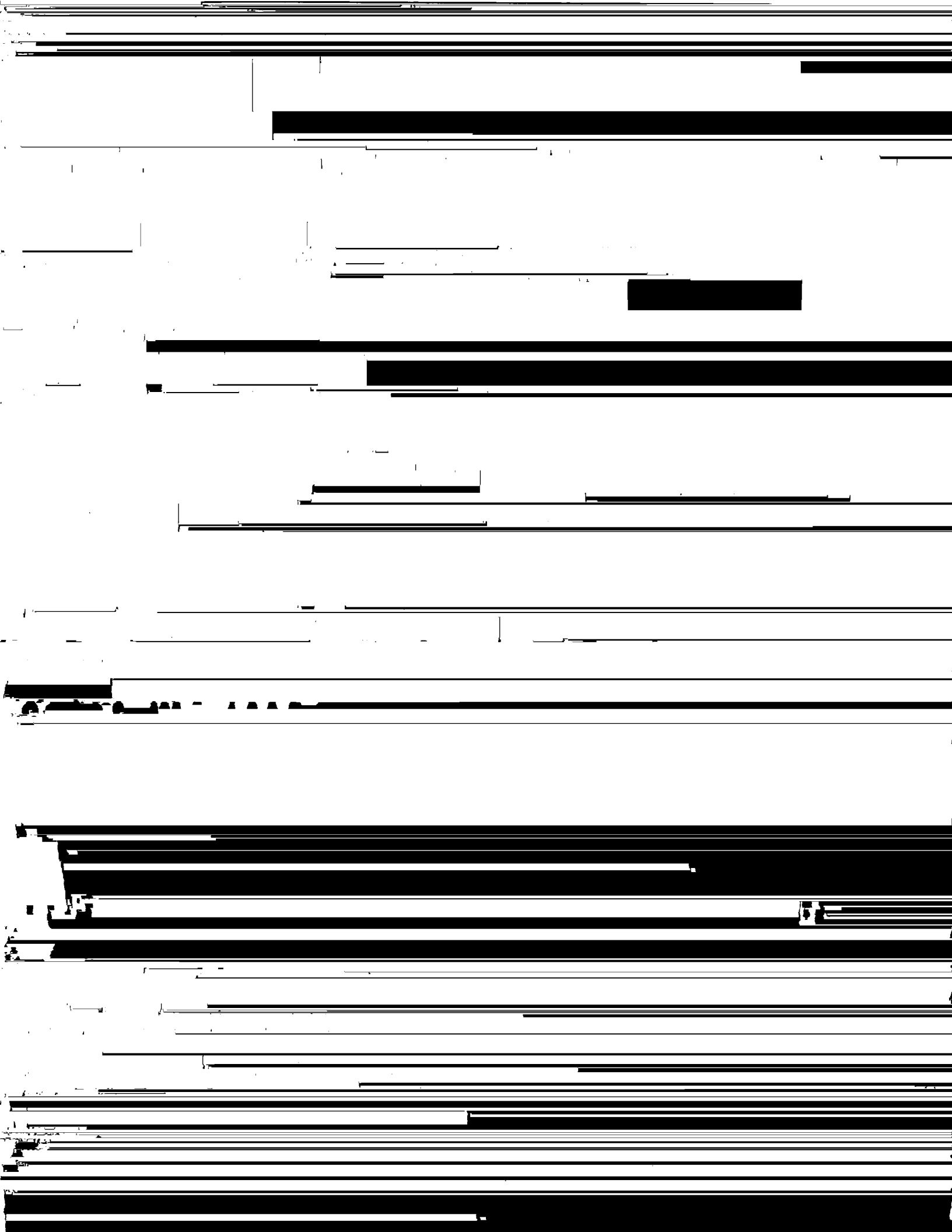
1. Meet all general degree requirements.
2. Complete 36 semester hours of graduate work as specified for the degree in the Department of Government section of this catalog.

Master of Science

1. Meet all general degree requirements.
2. Complete 30 semester hours of graduate work: 15 to 18 semester hours in the major field, six in thesis and six to nine semester hours in the minor field. On approval by the head of his/her major department a student may elect to take all his/her work in his/her major field.
3. If a thesis is not required, complete 36 hours of approved course work.
← The graduate degree in psychology requires 36 hours in approved course work

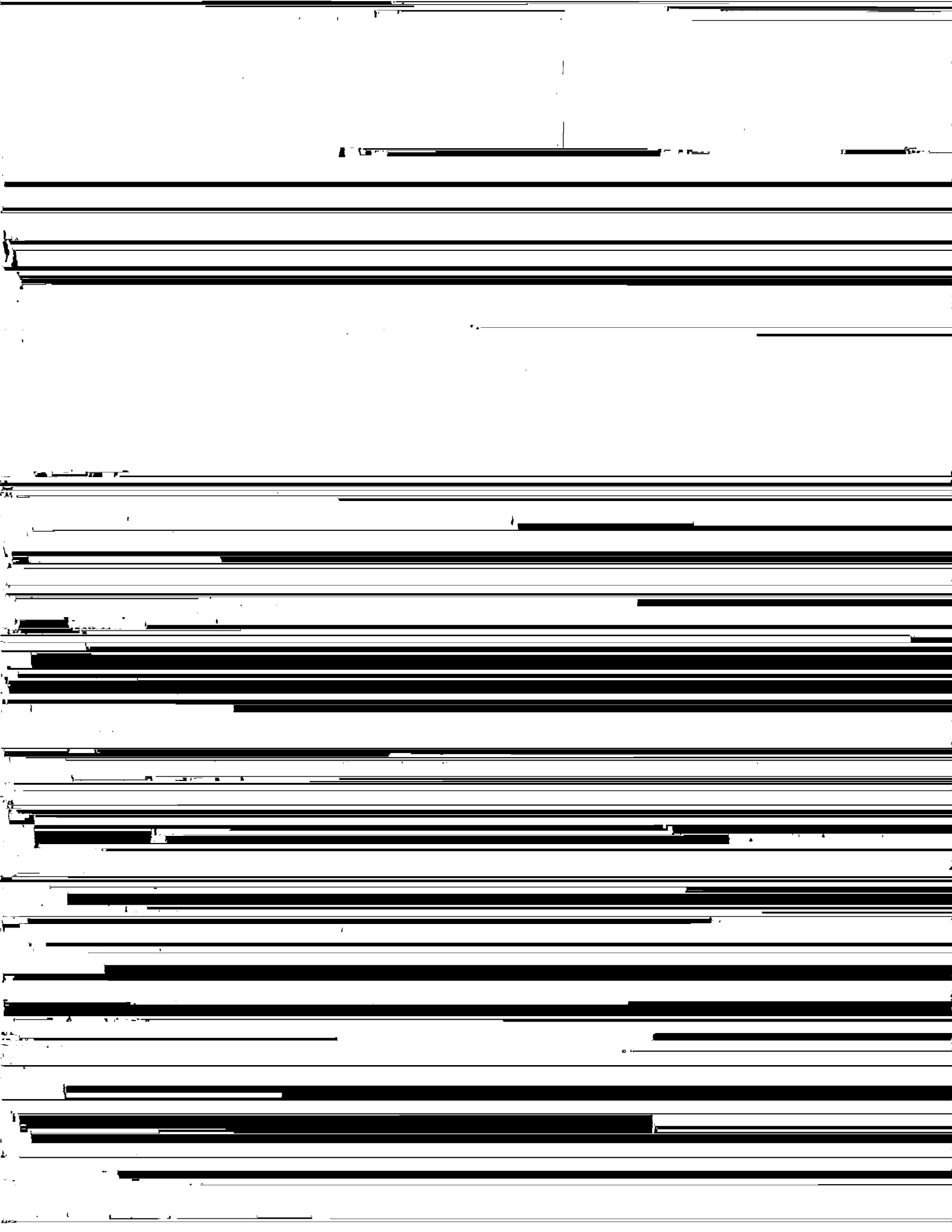
the appointment of an advisory committee is then submitted to the dean of the College of Graduate Studies. If approved, the student is admitted to candidacy.

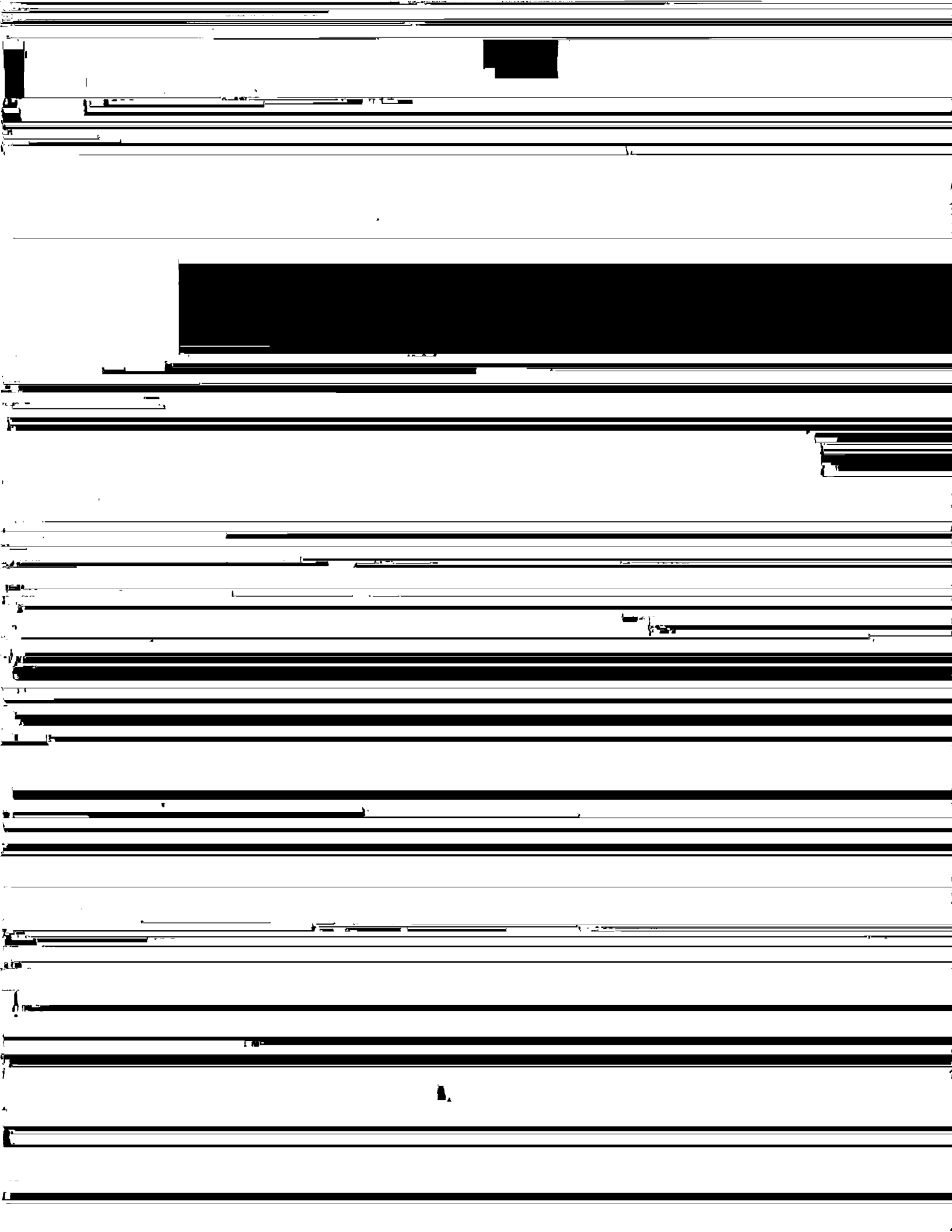




Degree Requirements

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College of Education

Graduate degree and certification programs are offered by the departments of Elementary Education, Secondary Education, Special Education, Health and Physical Education and Home Economics.

Degrees Offered:

Edu 435G — Individualized Instruction Through Technology

- Edu 5319 — Problems in Secondary School Instruction
- Edu 5320 — Adolescent Development
- Edu 5321 — Strategies for Individualizing Secondary Instruction

Professional Certificates in Elementary Education

The applicant should hold or be eligible for a Provisional Certificate before admission into a professional program and have three years of teaching experience before being recommended for the Professional Certificate.

Biology Physical Education

[REDACTED]

Edu 5333 — Individual Counseling Theories and Techniques
Edu 5334 — Interpretation and Analysis of Tests and Measurement
Edu 5335 — Individual Testing
Electives (six semester hours)
Edu 5332 — Guidance and Counseling in the Elementary School
SpEd 5361 — Survey of Learning Potentials of Exceptional Children

2. *Specialization Area:* Twenty-one semester hours.

Required: Twelve semester hours

Edu 5322 — Organization and Administration of the Guidance Program

Edu 5334 — Interpretation and Analysis of Tests and Measurement

Edu 5367 — Psycho-Social Foundations of Educating the Culturally Different

Edu 5368 — Practicum: Role and Responsibilities of the Visiting Teacher

Electives: Nine semester hours

certificate without fulfilling all degree requirements should consult with the Director of Certification for specific information.

Degree Plan in School Administration

Requirements for a Master of Education degree in School Administration may be met by completing a 36 semester hour nonthesis program. The program is designed to provide the first 36 of the 45 semester hours required for the Mid-Management Administrators' Certificate. A plan listing the specific courses for the degree is available in the office of the Director of Graduate Studies or in the Department of Secondary Education.

To meet individual needs, some flexibility is allowed in planning the student's program; however, because of requirements for certification the usual pattern of course work is as follows:

1. *Common Core for Administrators* (24 hours)
 - A. General Administrative Competencies (18 hours all required)
 - Edu 531 — Research in Education
 - Edu 535 — The Learning Process
 - Edu 537 — The Public School Curriculum, K-12
 - Edu 5331 — Theory and Practice in School Administration
 - Edu 5336 — Leadership and Eval of Instruction
 - Edu 5344 — School Law
 - B. Related Areas of Study (6 hours)
 - Soc 432G — Sociology of Education (required)
 - CS 5301 — Computer Systems for Education Applications (required)
 2. Specialized Preparation for School Administrators (12 hours)
 - Edu 5317 — Organization and Administration of Special Programs (required)
 - Edu 5318 — School Management and School Services (required)
 - Edu 5339 — The Public School Principal (required)
- Plus three hours of electives from:

administrative internship experience.

To be eligible for recommendation for the Professional School Superintendent's Certificate, the candidate must have met all of the requirements for the Mid-Management Administrator's Certificate, plus the completion of the 15 semester hour plan of specialized graduate work for school superintendents.

Professional Certificate course requirements are as follows:

1. *General Administrative Competencies*. 18 semester hours — all required.
 - Edu 531 — Research in Education
 - Edu 535 — The Learning Process
 - Edu 537 — The Public School Curriculum, K-12
 - Edu 5331 — Theory and Practice in School Administration
 - Edu 5336 — Leadership and Eval' of Instruction
 - Edu 5344 — School Law
2. *Related Areas of Study*. Nine semester hours — Six required.
 - Soc 432G — Sociology of Education (required)

Education section of the bulletin.

1. *Professional Development Area*. Nine semester hours must be selected from the following courses (three semester hours if the student elects to write a thesis):
 - Edu 530 — Structure and Organization of Public Education
 - Edu 531 — Research (required)
 - Edu 532 — Current Issues in Education
 - Edu 533 — Contemporary Philosophies of Education
 - Edu 534 — Advanced Studies Human Development (required for Educational)

SpEd 4308C — Appraisal Processes in Programming for the Exceptional Individual
SoEd 4310C — Practicum in Instructing the Exceptional Individual (with

5. Be a citizen, or in the process of becoming a naturalized citizen of the United States.

Associate Professor Richard E. Swain, III
Secondary education, science education
Assistant Professor Jerry R. Tucker
Secondary education
Assistant Professor Norma L. Tompkins
Special education
Assistant Professor Curtis E. Wills
Secondary education, guidance and counseling

532F — Strategies for Individualizing Secondary Instruction (3:3:0)

An analysis of the strategies for individualizing instruction, including the techniques of diagnosis and prescription for learning problems. Studies of the open classroom; team teaching; independent study, learning modules,

provement are considered. Special attention is given to reading programs and the total language arts program K-12.

5337 — Practicum and Seminar (3:3:0)

Supervision and curriculum development. Investigation of the role of the supervisor with emphasis on curriculum development. Investigations will

include in supervisor, curriculum theory and educational

ble to the teaching process as well as other supportive pupil services.

5000 *Methods, Roles and Responsibilities of the Visiting Teacher (2-0-0)*

Graduate Resource Courses:

CS 5301 — Computer Systems for Educational Applications (3:3:0)
Functional units of computers including both hardware and firmware;

The graduate student will select courses in health and physical education from the following:

Health and Physical Education Courses:

530 — Problems in Health and Physical Education (3:3:0)*

Biological, physiological, social, psychological and other purposes and outcomes; selection and distribution of activities; teaching methods; facilities; teacher preparation; literature; research problems. Permission must be ob-

669A-669B — Thesis (6:A*:0)

Prerequisite: Approval of graduate advisor.

Department of Home Economics

College of Engineering

Graduate degree programs are offered by the Departments of Chemical Engi-

MASTER OF ENGINEERING DEGREE (ME)

The Master of Engineering degree is designed to suit the needs of the practicing engineer. For admission to the program, the student must meet the following requirements:

1. The general requirement for admission to the College of Graduate Studies.
2. Hold a bachelor's degree with credit substantially equivalent to that required for an engineering degree at Lamar.

Degree Requirements:

1. The candidate for the M.E. degree must meet all the general requirements of the College of Graduate Studies as listed in this catalog.
2. The general requirement is 36 semester hours of graduate work. At least 18 semester hours of this work must be engineering courses at the 500 level. The

specify what additional preparation the student must make. The committee also will

Professor Luther A. Beale
Structural analysis design

[REDACTED]

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correlation theory; analysis of variance; use of control charts for control of manufacturing operations.

5322 — Rheology (3:3:0)

A study of non-Newtonian liquids with emphasis on principles and fundamentals. Methods of measuring rheological properties of non-elastic and elastic liquids are developed. Laminar and turbulent flow characteristics are reviewed.

5323 — Light Gage Steel Design (3:3:0)

Analysis and design of structural members using light gage cold formed steel. Consideration is given to elastic and inelastic buckling in beams and columns due to local, flexural, torsional and torsional flexural action.

5324 — *Wear Mechanics in Particulate Matter* (2:2:0)

search. Prerequisite: Consent of instructor.
5337 — System Simulation (3:3:0)

dance and fault-current calculations, load-flow studies, economic operation, stability and control, system modeling, non-fossil fuel energy conversion. Both analytical and digital-computer methods may be employed as appropriate.

5354 — Nuclear Power Plants (3:3:0)

Nuclear reactor neutron kinetics; core reactivity effects of control poisons, coolant and fuel temperatures, fission product poisons; self regulation, automatic control, startup and shut-down.

5367 — Nuclear Reactor Theory (3:3:0)

Nuclear fission; neutron diffusion, moderation and absorption; Fermi age treatment; reactor materials and shielding.

5371 — Seminar in Administrative Practices (3:3:0)

Study of the interrelationships between the fields of economics, politics, physical science and social science and the effects upon the management of engineering work. May be repeated for credit where subject matter differs.

6351 — Nuclear Reactor Kinetics (3:3:0)

Development of kinetics equations; special topics in space-time kinetics

Department of Mathematics

ing of knowledge in diverse areas of pure and applied mathematics. Accordingly, every effort may be made to fit the required additional 30 credit hours of graduate courses to the individual needs of each student. In conjunction with 5 above, this gives a total of 30 hours to complete the degree.

Sample Tracks and Suggested Courses

The following are suggested courses that may be used to develop tracks of specializations for the candidate. In each track, the candidate is permitted to choose six elective semester hours in the mathematical sciences in addition to the 24 semester hours listed below and the six semester hours assigned to Mth 5360 and 5361. Additional tracks may be designed. All programs must have the approval of the Department Head of Mathematics.

Numerical Analysis
Mth 431C - 3-Complex Variables
Mth 4315C - 3-Numerical Analysis

Mathematics/Statistics
Mth 532 - 3-Modern Algebra
Mth 431C - 3-Complex Variables

Professor Sterling C. Crim
Applied mathematics

problems arising from partial differential equations of physics and engineering.

539 — **Infinite Series (3:3:0)**
Sequences, power series, series of functions, complex series, expansion of functions, tests for convergence, uniform convergence, conditions for rearranging terms in a series. Fourier series. Lambert series. Weierstrass theorem on double series, asymptotic expansions, summation of series.

590 — **Operational Methods (3:3:0)**

atics, constructive foundation for the real number system, its algebraic and topological properties.

5322 — Foundations II (3:3:0)

Continuation of Mth 5321.

5323 — Real Analysis (3:3:0)

The first year of Calculus reviewed from a higher viewpoint.

5324 — Algebra (3:3:0)

Basic algebraic structures, groups, rings, Euclidean rings, division rings, integral domains, fields.

5325 — Linear Algebra (3:3:0)

with special emphasis on the algebraic structures of \mathbb{R}^2 and

College of Fine and Applied Arts

The College of Fine and Applied Arts offers graduate programs of study leading to the Master of Science degree in the fields of public address, theater and speech pathology/audiology, and the Master of Music and Master of Music Education degrees.

Persons seeking admission to these programs must meet the requirements specified by the College of Graduate Studies and the individual department. Admission to a degree program is not an admission to candidacy.

Department of Communication

A Master of Science degree in Speech is offered by the Department of Communica-

ation and 5) GRE scores. Students admitted to the graduate program with specific curricular deficiencies will be expected to remove the deficiencies before graduation.

Associate Professor Robert Moulton
Speech pathology, education of the deaf
Associate Professor Olen Pederson
Audiology; speech pathology

***Speech Courses:**

- 5101, 5201, 5301, 5401, 5501, 5601. — **Institute in Communication (1-6:1-6:0)**
Credit for participation in summer or other institutes. Subject of each institute to be noted on the schedule. May be repeated for credit when topic varies.
- 515, 525 — **Individual Study (1-2:A*:0)**
Independent study of special problems in disorders of communication.
- 5301 — **Aphasia and Neurogenic Disorders (3:3:0)**
Theory and treatment for organic speech disorders or neurologic origin.
- 5302 — **Stuttering (3:3:0)**
Nature, evaluation and treatment of fluency disorders.
- 5303 — **Voice Disorders (3:3:0)**
Functional and organic voice disorders — diagnosis and treatment.
- 5304 — **Cleft Palate (3:3:0)**
Nature, evaluation and treatment.

tive process. A review of the place of forensics in the high school and how such a program is developed and maintained.

5316 — **Language for the Deaf (3:3:0)**

Language development theory applied to the hearing impaired.

5317 — **Advanced Language for the Deaf (3:3:0)**

Language development and correction in the older deaf child and adult.

5318 — **Special Audiometric Tests (3:3:0)**

Test batteries for peripheral vs. central site of lesion, non-organicity, electrophysiological assessment.

5319 — **Bone Conduction and Masking (3:3:0)**

Test procedures for determining individual ear status, includes impedance audiometry.

5320 — **Pediatric Audiology (3:3:0)**

Below is the approved list of 400G level courses which may be taken with aug.

GRADUATE FACULTY

Members

Professor Joseph B. Carlucci
Single reed woodwinds

Associate Professor J. N. Collier

Musicology

- 533 — **Basic Concepts in Music Education (3:3:0)**
The historical, philosophical and psychological bases of music education.
- 534 — **Supervision of Music (3:3:0)**
Supervision of public school music programs, with emphasis on leadership, instruction, public relations and problems in scheduling and finance.

College of Liberal Arts

The College of Liberal Arts offers programs of study leading to the Master of Arts degree in the fields of English, government and history and to the Master of Public Administration degree.

Persons seeking admission to these programs must meet the requirements specified

GRADUATE FACULTY

Members

Professor Robert J. Barnes

British and Continental literature: 1840 to the present

Professor George W. de Schweinitz

Modern American literature, creative writing

Professor Winfred S. Emmons, Jr.

Middle English language and literature, American literature

Professor Harry L. Frissell

Seventeenth century British literature

Professor Merrill D. Cooper

532 — Directed Reading (3:3:0)

Graduate students may study individually with an instructor in an area of mutual interest to the student and the instructor. Prerequisite: graduate standing and approval of head of the Department of Government.

534 — Seminar in American Government and Politics (3:3:0)

Department of the History of the field of American government and politics

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Assistant Professor John M. Carroll
United States history, diplomatic, the South
Associate Professor Howell Holmes Gwin, Jr.
European history, classical and medieval

5312 — Directed Readings in History (3:A*:0)

Directed readings arranged with instructor in area of mutual interest. Will not apply to 500 level course requirement in program. Under limited and special circumstances, course may be repeated but only with specific approval of History Graduate Committee.

669A-669B — Thesis (6:A*:0)

Prerequisite: Approval of graduate advisor.

Below is the approved list of 400G level courses which may be taken with augmented requirements for graduate credit, subject to approval by the graduate advisor. Course descriptions may be found in the Bulletin of Lamar University.

- 430G — Era of the Renaissance and Reformation
- 431G — The Old Regime
- 432G — The French Revolution and Napoleon
- 433G — Russia and Eastern Europe to 1860
- 434G — Nineteenth Century Europe
- 435G — Twentieth Century Europe
- 436G — The American West
- 437G — The Old South
- 438G — The New South
- 4311G — Colonial America
- 4312G — The American Revolution

College of Sciences

The College of Sciences offers programs of study leading to the Master of Science degree in fields of biology, chemistry and psychology. In addition, graduate study is available in geology and physics as areas of support or specialization in other advanced degree programs.

Persons seeking admission to these programs must meet the requirements specified by the College of Graduate Studies and the individual department. Admission to a degree program is not an admission to candidacy.

Department of Biology

The Department of Biology offers a program of study leading to the Master of Science in Biology degree. It is designed to enhance the professional competence of graduates in biology or closely related disciplines who are presently engaged in or

[REDACTED]

[REDACTED]

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[REDACTED]

- 545 — **Mammalogy (4:3:3)**
Natural history, taxonomy, and ecology of mammals. Required field trip.
- 546 — **Marine Invertebrate Zoology (4:3:3)**
Field study and identification of area species; current research. Required field trips. Recommended prerequisite: Bio 346 or 445.
- 547 — **Ecology of Polluted Waters (4:3:3)**
Analyses of effects of water pollutants on aquatic ecosystems. Prerequisite: Bio 443.
- 548 — **Helminthology (4:3:3)**

courses in general chemistry, inorganic chemistry, analytical chemistry, organic

***Chemistry Courses:**

531 — Advanced Analytical (3:3:0)

Prerequisites: Graduate standing or consent of instructor.

533 — ~~Advanced Inorganic (2:2:0)~~

Department of Geology

The Department of Geology offers the following graduate courses to be used primarily as a support to other advanced degree programs.

GRADUATE FACULTY

Members

Professor H. E. Eveland

Geomorphology, glacial geology

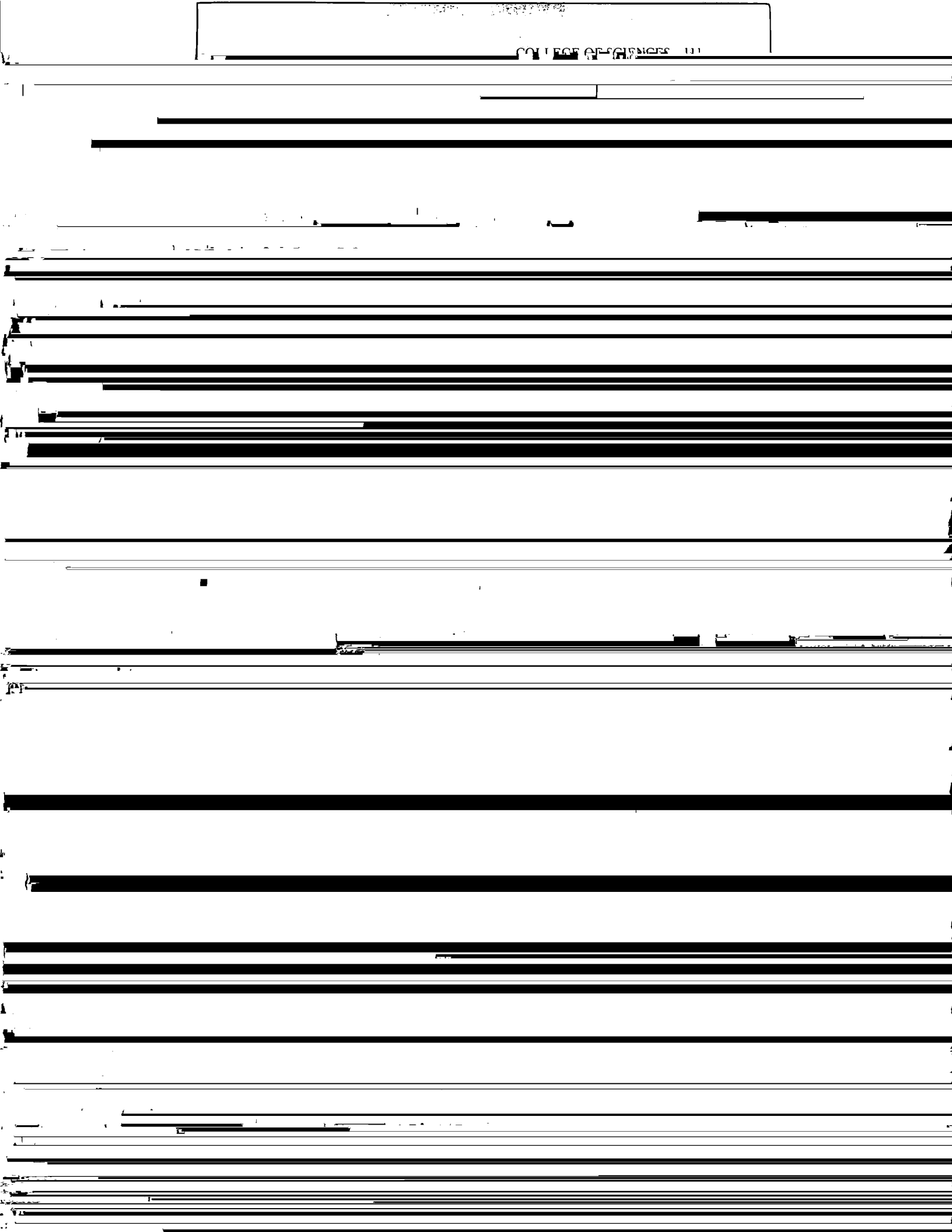
Professor William H. Matthews, III

Paleontology, stratigraphy

Professor William R. Pamp

Paleontology, meteorology, stratigraphy

Professor Anthony C. Tennissen



Department of Psychology

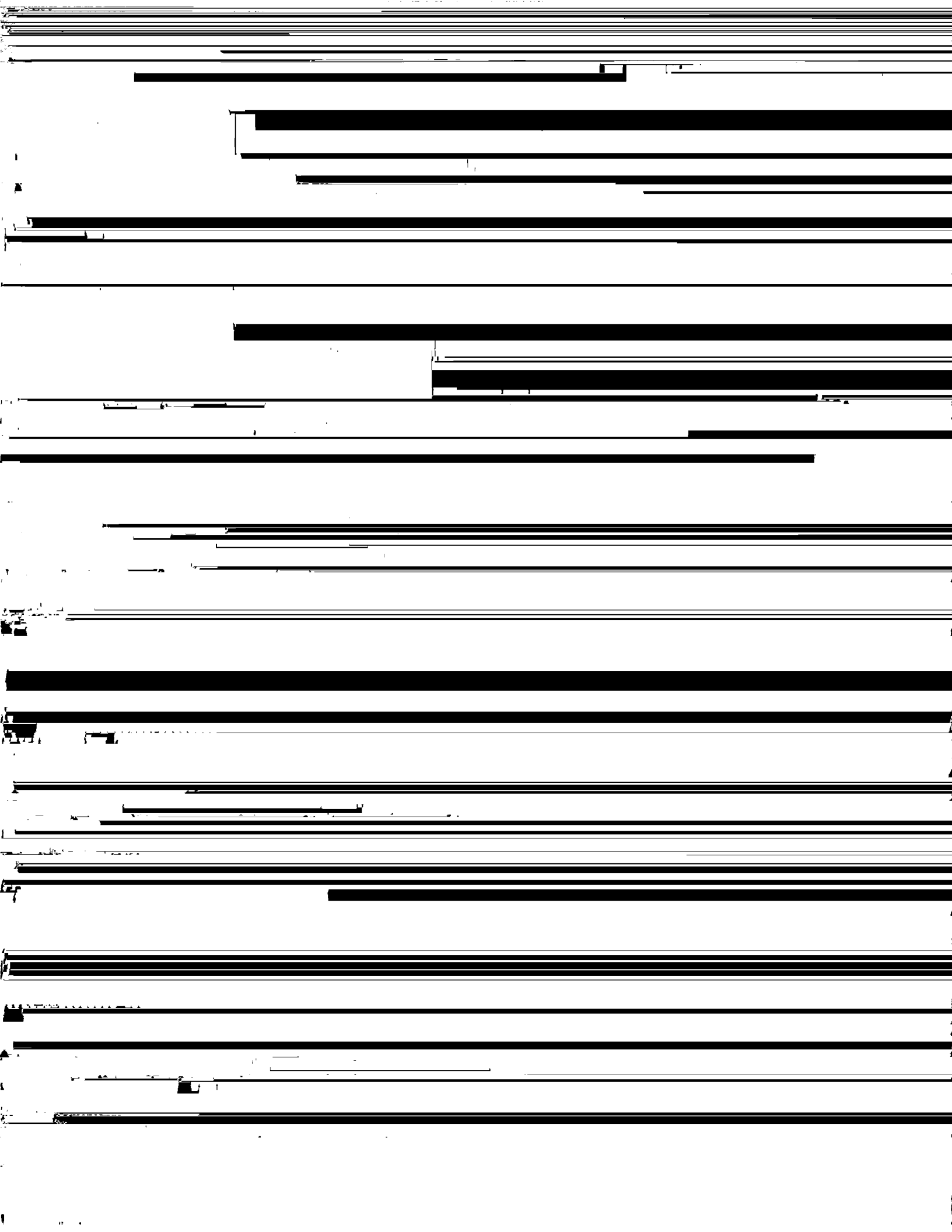
The Department of Psychology offers a program of study leading to the Master of Science degree in Psychology. It is designed to prepare professional personnel for employment in industry or in the area of community mental health. Those seeking

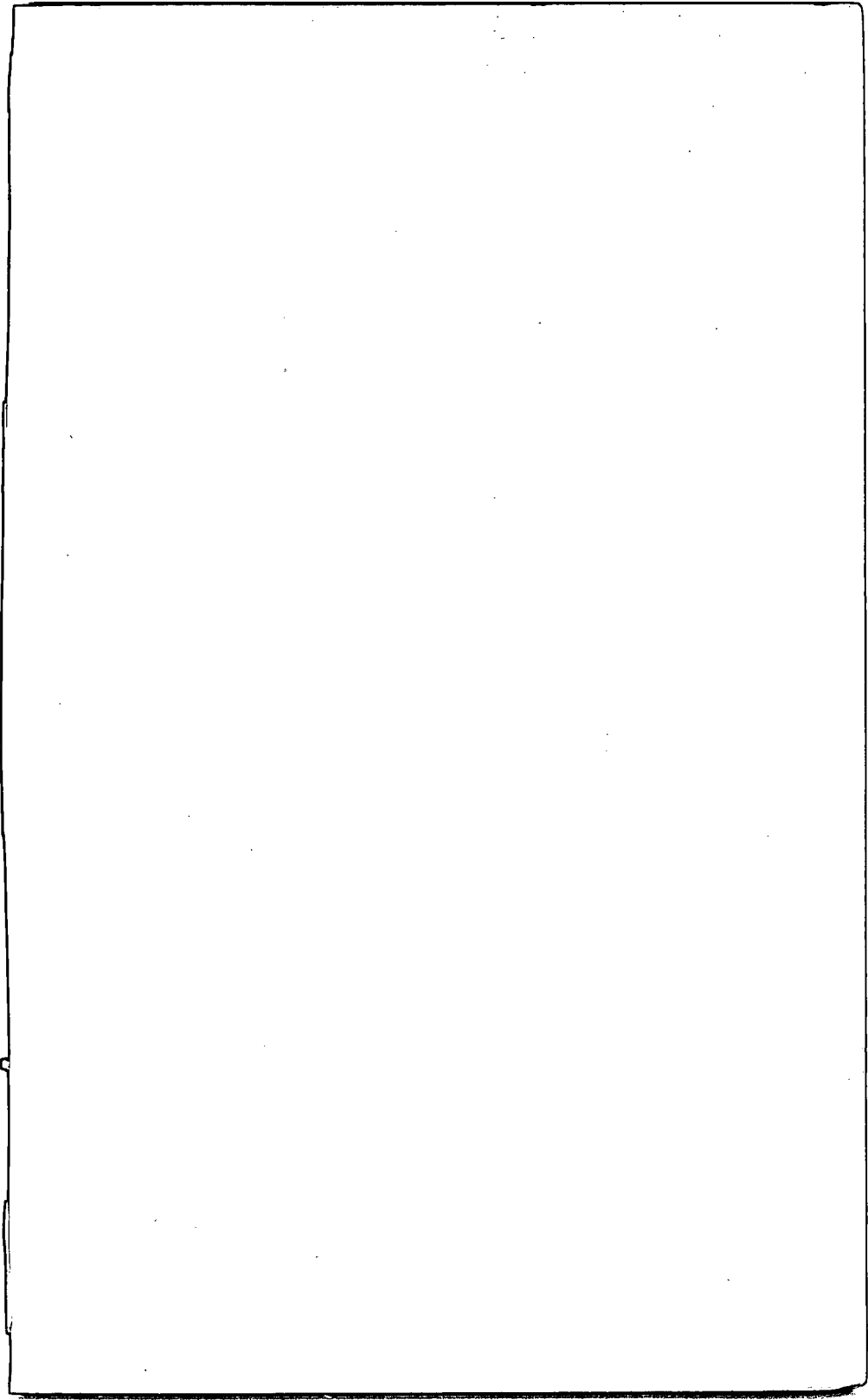
535 — Seminar in Psychology (3:3:0)

An intensive study of selected areas of psychological thought and/or research. Emphasis will be on locating and evaluating literature in a selected area of psychology. Description of course content will appear in the schedule of classes. May be repeated for credit when topic varies. Prerequisite: Consent of instructor.

5310 — Introduction to Psychological Assessment (3:3:0)

An introduction to psychological evaluation techniques including test con-





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